

CLAIMS

1. An electrosurgical apparatus for tissue removal, comprising:

- a substantially hollow elongated body terminating in a sharp closed cutting head;
- an insulative layer covering said elongated body;
- 5 - said elongated body forming a portion of a coolant path;
- a handle located at an end of said elongated body opposite from said cutting head;
- coolant inlet/outlet connectors connected to said handle for introducing a coolant into said coolant path of said elongated body and releasing said coolant therefrom; and
- a radio-frequency energy input connector connected to said elongated body.

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2. The electrosurgical apparatus according to claim 1, wherein said elongated body comprises two metal tubes arranged side-by-side.

3. The electrosurgical apparatus according to claim 2, said cutting head comprises two

15 flat metal tubes arranged side-by-side and sealed at the ends, said metal tubes being in fluid communication with and connected to said two metal tubes of said elongated body.

4. The electrosurgical apparatus according to claim 1, wherein said elongated body

20 comprises two metal tubes with different diameters, one with a smaller diameter being disposed coaxially within the other with a bigger diameter.

5. The electrosurgical apparatus according to claim 1, wherein said insulative layer is a medical insulative paint or an insulative tube surrounding said elongated body.
6. An electrosurgical apparatus for tissue removal, comprising:
- 5 - a substantially hollow elongated body terminating in a closed cutting head; wherein said elongated body comprises a metal tube which is folded over to form a loop section and a fork section having two legs;
- an insulative layer covering said elongated body;
- said elongated body forming a portion of a coolant path;
- 10 - a handle located at an end of said elongated body opposite from said cutting head;
- coolant inlet/outlet connectors connected to said handle for introducing a coolant into said coolant path of said elongated body and releasing said coolant therefrom; and
- a radio-frequency energy input connector connected to said elongated body.
- 15 7. The electrosurgical apparatus according to claim 6, wherein said two legs of said fork section are adhered to each other.
8. The electrosurgical apparatus according to claim 6, wherein said cutting head comprises said loop section of the folded tube.
- 20 9. The electrosurgical apparatus according to claim 8, wherein said cutting head is arranged at an angle to said elongated body.

10. The electrosurgical apparatus according to claim 6, wherein said insulative layer is a medical insulative paint or an insulative tube surrounding said elongated body.